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1: Appl Microbiol Biotechnol. 2003 Jul;62(1):61-8. Epub 2003 Mar 11.

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A small cryptic plasmid from Rhodococcus erythropolis: characterization and utility for gene expression.

Kostichka K, Tao L, Bramucci M, Tomb JF, Nagarajan V, Cheng O.

Biological and Chemical Sciences and Engineering, Central Research and Development, Experimental Station E328/B48, E. I. DuPont de Nemours Inc Wilmington, DE 19880-0328, USA.

Exploration of metabolically diverse rhodococci is generally hampered by the of genetic tools. A small cryptic plasmid (pAN12) isolated from Rhodococcu erythropolis strain AN12 was sequenced. Plasmid pAN12 encodes proteins tl share homology to replication proteins and putative cell division proteins. Ba in vitro transposon mutagenesis, we determined that the Rep protein of pAN. essential for plasmid replication in Rhodococcus spp., and the putative cell d protein Div is important for plasmid stability. The pAN12 replicon is able to replicate in R. erythropolis strains AN12 and CW23 (ATCC 47072) and is compatible with the nocardiophage Q4 replicon present on a Rhodococcus st plasmid pDA71. pAN12 appears to belong to the pIJ101/pJV1 family of rolli circle replication plasmids. Expression of an isoprenoid pathway gene (dxs) pAN12-derived multicopy shuttle vector increased production of carotenoid pigments in R. erythropolis ATCC 47072.

PMID: 12835922 [PubMed - indexed for MEDLINE]

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